

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 1632

Examiner: Unassigned

In re Application of:

Hammond et al.

Application No. 10/601,032

Filed: June 20, 2003

For: METHOD FOR IDENTIFYING

INDIVIDUAL ACTIVE ENTITITES FROM COMPLEX MIXTURES

INFORMATION DISCLOSURE STATEMENT

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as

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	set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.
	after (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes <i>one</i> of:
	the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
	or the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
	after the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
	after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.
Copie	s of the References
	Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).
\boxtimes	A copy of the international search report is enclosed herewith.
	The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s)

relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

	U.S. APPLI	CATIONS	S	tatus (check c	one)				
U.	S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED				
1.									
2.									
3.									
Stater	Statement under 37 CFR 1.97(e)								
	Information Discle foreign patent office	hereby states that each osure Statement was force in a counterpart fore filing of the Information	irst cited in a ign patent app	iny commun lication not i	ication from a				
	The undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.								
States	ment under 37 CFR	1.704(d)							
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.								
Fees									
	No fee is owed by the applicant(s). The IDS Fee of \$180 under 37 CFR 1.17(p) is enclosed herewith.								
Meth	od of Payment of Fe	ees							
	Charge Deposit Ac	c in the amount of \$. (A d	uplicate copy of				

this communication is enclosed for that purpose.)

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Authorization to Charge Additional Fees

If any additional fees are			
Deposit Account No. 12-1	1216. (A duplicate	copy of this c	ommunication is enclosed
for that purpose.)			•

Instructions as to Overpayment

Credit Account No. 12-1216.
Refund

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Date: November 19, 2003

Substitute for form 1449A/B/PTO

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	Complete if Known	
Application Number	10/601,032	
Filing Date	June 20, 2003	
First Named Inventor	HAMMOND, David J.	
Group Art Unit	1632	
Examiner Name	Unassigned	
Attorney Docket Number	222363	

		U.S. Patent Do	cument			
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
	AA	5,010,175		Rutter et al.	Apr. 23, 1991	
	AB	5,133,866		Kauvar	Jul. 28, 1992	
	AC	5,482,867		Barrett et al.	Jan. 9, 1996	
-	AD	5,498, 538		Kay et al.	Mar. 12, 1996	
<u> </u>	AE	5,723,579		Buettner et al.	Mar. 3, 1998	
	AF	5,786,458		Baumbach et al.	Jul. 28, 1998	
	AG	2002/0055125	A1	Charych et al.	May 9, 2002	

				FORE	IGN PATENT DOCUMENTS			
		F	oreign Patent Documer	nt			Trans	slation
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
i	AH	wo	92/00091	A1	Bioligand, Inc.	Jan. 9, 1992		
	AI	wo	01/27623	A2	V.I. Technologies, Inc.	Apr. 19, 2001		
e.	AJ	wo	01/40265	A2	V.I. Technologies, Inc.	Jun. 7, 2001		

		OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner	Doc.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	Trans	slation
Initials	No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
•	AK	Bastek et al., "Discovery of Alpha-1-Proteinase Inhibitor Binding Peptides from the Screening of a Solid Phase Combinatorial Peptide Library," <i>Separation Science and Technology</i> , 35(11): 1681-1706 (2000).		
	AL	Baumbach et al., "Protein Purification Using Affinity Ligands Deduced from Peptide Libraries," <i>BioPharm.</i> , May: 24-31 (1992).		
	AM	Blackwell et al., "A One-bead, One-stock Solution Approach to Chemical Genetics: Part I," Chemistry & Biology, 8: 1167-1182 (2001).		
	AN	Buettner et al., "Chemically Derived Peptide Libraries: A New Resin and Methodology for Lead Identification," <i>International Journal of Peptide & Protein Research</i> , 47: 70-83 (1996).		
	AO	Cabilly et al., "Screening Phage Display Peptide Libraries on Nitrocellulose Membranes," <i>Methods in Molecular Biology</i> , 87:185-94 (1998).		
	AP	Chen et al., "One Bead-One Compound Combinatorial Peptide Library: Different Types of Screening," <i>Methods in Enzymology</i> , 267: 211-219 (1996).		
	AQ	Devlin et al., "Random Peptide Libraries: A Source of Specific Protein-Binding Molecules," <i>Science</i> , 249: 404-406 (1990).		
	AR	Furka et al., "General Method for Rapid Synthesis of Multicomponent Peptide Mixtures," Int. J. Peptide Protein Res., 37(6): 487-493 (1991).		

Examiner Signature	Date Considered	

A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

Substitute for form 1449A/B/PTO

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	Complete if Known			
Application Number	10/601,032			
Filing Date	June 20, 2003			
First Named Inventor	HAMMOND, David J.			
Group Art Unit	1632			
Examiner Name	Unassigned			
Attorney Docket Number	222363			

		OTHER - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	Translation	
Examiner Initials	Doc. No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
	AS	Haab et al., "Protein Microarrays for Highly Parallel Detection and Quantitation of Specifica Proteins and Antibodies in Complex Solutions," <i>Genome Biology</i> , 2(2): 1-13 (2001).		
	ΑT	Huang et al., "Affinity Purification of von Willebrand Factor Using Ligands Derived from Peptide Libraries," <i>Bioorganic & Medicinal Chemistry</i> , 4(5): 699-708 (1996).		
	ΑU	Ito et al., "A Comprehensive Two-hybrid Analysis to Explore the Yeast Protein Interactome," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 98(8): 4569-4574 (2001).		
	AV	Jayawickreme et al., "Use of Cell-based, Lawn Format Assay to Rapidly Screen a 442,368 Bead-based Peptide Library," <i>J. Pharmacol. Toxicol.</i> 42:189-197 (1999).		
	AW	Kaufman et al., "Affinity Purification of Fibrinogen Using a Ligand from a Peptide Library," <i>Biotechnology and Bioengineering</i> , 77(3): 278-289 (2001).		
	AX	Lam et al., "A New Type of Synthetic Peptide Library for Identifying Ligand-binding Activity," <i>Nature</i> , 354(6348): 82-84 (1991).		
-	AW	Lam et al., "Application of Combinatorial Library Methods in Cancer Research and Drug Discovery," <i>Anti-Cancer Drug Design</i> , 12:145-167 (1997).		
	AZ	Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide," <i>J. Amer Chem. Soc.</i> , 85: 2149-2154 (1963).		
	BA	Mondorf et al., "Screening of Combinatorial Peptide Libraries: Identification of Ligands for Affinity Purification of Proteins Using a Radiological Approach," <i>J Peptide Research</i> , 52(6): 526-536 (1998).		
	ВВ	O'Reilly et al., "Angiostatin: A Novel Angiogenesis Inhibitor That Mediates the Suppression of Metastases by a Lewis Lung Carcinoma," <i>Cell</i> , 79(2): 315-328 (1994).		
	ВС	Salmon et al., "High Volume Cellular Screening for Anticancer Agents with Combinatorial Chemical Libraries: A New Methodology," <i>Molecular Diversity</i> , 2: 57-63 (1996).		
	ВD	Service, "Protein Chips: Searching for Recipes for Protein Chips," <i>Science</i> , 294(5549): 2080-2082 (2001).		
	BE	Smolka et al., "Optimization of the isotope-Coded Affinity Tag-Labeling Procedure for Quantitative Proteome Analysis," <i>Anal. Biochem.</i> , 297(1):25-31 (2001).		
	BF	Still, W.C., "Discovery of Sequence-Selective Peptide Binding By Synthetic Receptors Using Encoded Combinatorial Libraries," <i>Acc. Chem. Res.</i> , 29: 155-163 (1996).		
	BG	Uetz et al., "A Comprehensive Analysis of Protein-Protein Interactions in Saccharomyces Cerevisiae," <i>Nature</i> , 403(6770): 623-627 (2000).		
	вн	Washburn et al., "Large-scale Analysis of the Yeast Proteome by Multidimensional Protein Identification Technology," <i>Nat Biotechnol.</i> , 19(3): 242-2471 (2001).		

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